



August 29, 2019

Arcelor Mittal USA, Inc.
250 W US Highway 12
Burns Harbor, IN 46304-9745

Work Order No.: 19H1865

Re: Daily

Dear Teri Kirk:

Microbac Laboratories, Inc. - Chicagoland Division received 2 sample(s) on 8/29/2019 10:25:00AM for the analyses presented in the following report as Work Order 19H1865.

The enclosed results were obtained from and are applicable to the sample(s) as received at the laboratory. All sample results are reported on an "as received" basis unless otherwise noted.

All data included in this report have been reviewed and meet the applicable project specific and certification specific requirements, unless otherwise noted. A qualifications page is included in this report and lists the programs under which Microbac maintains certification.

This report has been paginated in its entirety and shall not be reproduced except in full, without the written approval of Microbac Laboratories.

We appreciate the opportunity to service your analytical needs. If you have any questions, please contact your project manager. For any feedback, please contact Ron Misiunas, Division Manager, at ron.misiunas@microbac.com.

Sincerely,
Microbac Laboratories, Inc.

A handwritten signature in black ink that reads "Carey Gadzala". The signature is written in a cursive, flowing style.

Carey Gadzala
Project Manager

[Microbac Laboratories, Inc.](http://www.microbac.com)

250 West 84th Drive | Merrillville, IN 46410 | 800.536.8379 p | 219.769.8378 p | 219.769.1664 f | www.microbac.com



WORK ORDER SAMPLE SUMMARY**Date:** *Thursday, August 29, 2019*

Client: Arcelor Mittal USA, Inc.
Project: Daily
Lab Order: 19H1865

| Lab Sample ID | Client Sample ID | Tag Number | Collection Date | Date Received |
|----------------------|-------------------------|-------------------|------------------------|----------------------|
| 19H1865-01 | 002-Composite | 002 | 08/28/2019 00:00 | 8/29/2019 10:25:00AM |
| 19H1865-02 | 002-Grab | 002 | 08/28/2019 00:00 | 8/29/2019 10:25:00AM |

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Analytical Results

Date: *Thursday, August 29, 2019*

| | | | |
|----------------------------|--------------------------|-----------------------|------------------|
| Client: | Arcelor Mittal USA, Inc. | Work Order/ID: | 19H1865-01 |
| Client Project: | Daily | Sampled: | 08/28/2019 0:00 |
| Client Sample ID: | 002-Composite | Received: | 08/29/2019 10:25 |
| Sample Description: | 002 | | |
| Matrix: | Aqueous | | |

| Analyses | Certs | AT | Result | MDL | RL | Qual | Units | DF | Analyzed |
|---|-------|----|-----------|--------|---------------------|------|-------|----|------------------|
| Method: SM 4500-CN C/E-1999 | | | | | Analyst: ABG | | | | |
| Total Cyanide | | | | | | | | | |
| Prep Date/Time: 08/29/2019 12:12 | | | | | | | | | |
| Cyanide, Total | ejj | A | ND | 0.0020 | 0.0050 | U | mg/L | 1 | 08/29/2019 14:35 |

Analytical Results

Date: Thursday, August 29, 2019

| | | | |
|----------------------------|--------------------------|-----------------------|------------------|
| Client: | Arcelor Mittal USA, Inc. | Work Order/ID: | 19H1865-02 |
| Client Project: | Daily | Sampled: | 08/28/2019 0:00 |
| Client Sample ID: | 002-Grab | Received: | 08/29/2019 10:25 |
| Sample Description: | 002 | | |
| Matrix: | Aqueous | | |

| Analyses | Certs | AT | Result | MDL | RL | Qual | Units | DF | Analyzed |
|--------------------------------------|-------|----|--------|-----|--------------|------|-------|----|------------------|
| Method: EPA 1664B | | | | | Analyst: KMT | | | | |
| Oil & Grease (HEM) by SPE | | | | | | | | | |
| Oil & Grease (HEM) | ejj | A | ND | 1.4 | 5.0 | U | mg/L | 1 | 08/29/2019 14:30 |

ANALYTE TYPES: (AT)

A, B = Target Analyte

I = Internal Standard

M = Summation Analyte

S = Surrogate

T = Tentatively Identified Compound (TIC, concentration estimated)



QC SAMPLE IDENTIFICATIONS

BLK = Method Blank

DUP = Method Duplicate

BS = Method Blank Spike

MS = Matrix Spike

ICB = Initial Calibration Blank

CCB = Continuing Calibration Blank

CRL = Client Required Reporting Limit

PDS = Post Digestion Spike

QCS = Quality Control Standard

ICSA = Interference Check Standard "A"

ICSAB = Interference Check Standard "AB"

BSD = Method Blank Spike Duplicate

MSD = Matrix Spike Duplicate

ICV = Initial Calibration Verification

CCV = Continuing Calibration Verification

OPR = Ongoing Precision and Recovery Standard

SD = Serial Dilution

CERTIFICATIONS (Certs)

Below is a list of certifications maintained by the Microbac Merrillville Laboratory. All data included in this report has been reviewed for and meets all project specific and quality control requirements of the applicable accreditation, unless otherwise noted. Complete lists of individual analytes pursuant to each certification below are available upon request.

d Illinois EPA drinking water, wastewater and solid waste analysis (#200064)

i Kansas Dept Health & Env. NELAP (#E-10397)

j Kentucky Wastewater Laboratory Certification Program (#108202)

FLAGS, FOOTNOTES AND ABBREVIATIONS (as needed)**MDL:** Minimum Detection Limit**RL:** Reporting Limit**RPD:** Relative Percent Difference**U:** The analyte was analyzed for but was not detected above the reported quantitation limit. The quantitation limit has been adjusted for any dilution or concentration of the sample.

Cooler Receipt Log

Cooler ID: Default Cooler

Temp: 3.2°C
 MICROBAC®

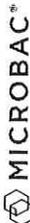
Cooler Inspection Checklist

| | |
|--|-----|
| Ice Present or not required? | Yes |
| Shipping containers sealed or not required? | Yes |
| Custody seals intact or not required? | Yes |
| Chain of Custody (COC) Present? | Yes |
| COC includes customer information? | Yes |
| Relinquished and received signature on COC? | Yes |
| Sample collector identified on COC? | Yes |
| Sample type identified on COC? | Yes |
| Correct type of Containers Received | Yes |
| Correct number of containers listed on COC? | Yes |
| Containers Intact? | Yes |
| COC includes requested analyses? | Yes |
| Enough sample volume for indicated tests received? | Yes |
| Sample labels match COC (Name, Date & Time?) | Yes |
| Samples arrived within hold time? | Yes |
| Correct preservatives on COC or not required? | Yes |
| Chemical preservations checked or not required? | Yes |
| Preservation checks meet method requirements? | Yes |
| VOA vials have zero headspace, or not recd.? | Yes |

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CHAIN OF CUSTODY RECORD



Number **152294**

Instructions on back

TO BE COMPLETED BY MICROBAC

Turnaround Time
 Routine (5 to 7 business days)
 RUSH* (notify lab)

Invoice Address

Client Name: **Arcelor mital**

Address:

City, State, Zip:

Contact: **Tori Kuk**

Telephone No.:

Temperature Upon Receipt (°C)

Therm ID

Holding Time

Samples Received on Ice? Yes No N/A

Custody Seals Intact? Yes No N/A

Report Type

Results Only Level 1 Level 2 Level 3 Level 4 EDD

Send Invoice via: Mail Fax e-mail (address)

Compliance Monitoring? Yes No

Agency/Program

PO No.:

Sampler Phone No.:

Sampler Signature: *W. Howard*

* Matrix Types: Soil/Solid (S), Sludge, Oil, Wipe, Drinking Water (DW), Groundwater (GW), Surface Water (SW), Waste Water (WW), Other (specify)
 ** Preservative Types: (1) HNO3, (2) H2SO4, (3) HCl, (4) NaOH, (5) Zinc Acetate, (6) Methanol, (7) Sodium Bisulfate, (8) Sodium Thiosulfate, (9) Hexane, (U) Unpreserved

REQUESTED ANALYSIS

| Client Sample ID | Date Collected | Time Collected | No. of Containers | Matrix | Grb / Comp | Preservative Types ** | Analysis | Additional Notes |
|---------------------|----------------|----------------|-------------------|--------|------------|-----------------------|--|------------------|
| 001 | 8/28/19 | | 1 | | U | A | TS5 Phenol Cn Pb FOG KSCl | 19H/1865 |
| 001 | 8/29/19 | | 3 | | U | | | |
| 110 | 8/28/19 | | 3 | | U | | | |
| 110 | 8/29/19 | | 3 | | U | | | |
| Logan Channel Inlet | 8/29/19 | 0750 | 1 | | U | | | |
| South Logan Inlet | 8/29/19 | 0815 | 1 | | U | | | |
| 011 | 8/29/19 | 0800 | 1 | | U | | | |
| 002 | 8/28/19 | | 1 | | U | | | -01 |
| 002 | 8/29/19 | | 2 | | U | | | -02 |

Sample Disposition: Dispose as appropriate Return Archive

Hazardous Non-Hazardous Radioactive

Relinquished By (signature) *W. Howard* Date/Time 8/29/19 0800
 Received By (signature) *M. Ots* Date/Time 8/29/19 0800

Relinquished By (signature) *M. Ots* Date/Time 8/29/19 1025
 Received By (signature) *Deni* Date/Time 8/29/19 1025